DT-209X / DT-209X-S12

Big things come in small packages

Demanded by loyal users of the popular DT-205L laser tachometers, Shimpo responded by creating the DT-209X series of LASER combination hand held tachometers. Based on the DT-205L with its rugged construction and quality components; the DT-209X is equipped with DATA COLLECTION features that adds flexibility in the field for Maintenance, Quality Control and R&D professionals.

Simultaneous storage of data in three different measuring modes (USB, Standard, and Average) both the DT-209X and DT-209X-S12 offer incredible value and ease of use in Contact and Non-contact applications.

Enhanced download features and online controls, showing trending and real time data via USB communication; you can easily access your data by the free software included in each DT-209X package. USB and Analog output included.
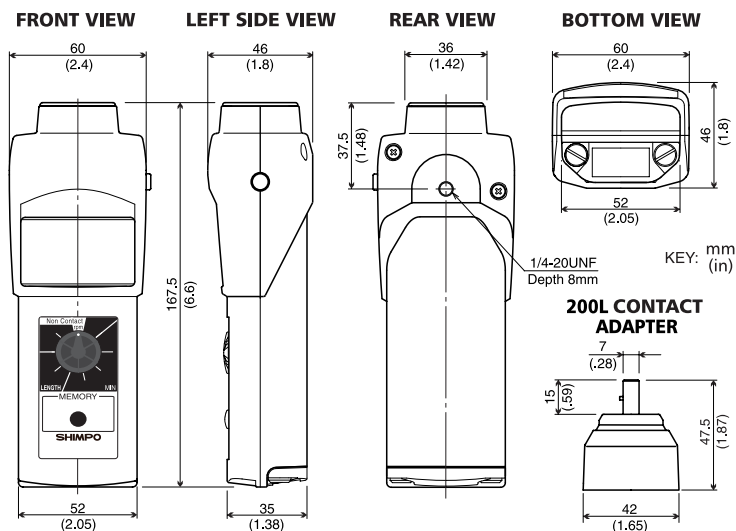
DT-209X Software

· 3 Modes of measurement (USB, STANDARD, AVERAGE)
· Selectable units of measure and display refresh interval
· Graph capability in USB mode
· Data can be imported to spreadsheet reports
· Automatic data calculation for Last, Minimum, Maximum and Average readings
· Readings can be set for length and rate measurement
· Smart settings for trigger, max and min limits. (PC will beep indicating out of range data)
· Synchronize time with PC for time stamping
· Multiple data storage in USB mode for different records
· Programmable 1-volt analog output for chart recorders

FEATURES

· 1/4 x 20 mounting hole
· Sophisticated laser beam detection; up to 14'
· Exceptional accuracy
· Length and rate functions
· Multi-mode speed selection
· Length/sec available
· Hardy aluminum construction
· Large 5 digit display
· Expansive memory capacity
· Extended battery life
· Free N.I.S.T. certificate

CALRIGHT INSTRUMENTS

The Right Source For Your Test & Measurement Needs

2232 Verus Street Suite D San Diego CA 92154 USA
Toll Free: 866.363.6634 Tel: 619.429.4545 Fax: 619.374.7012
Email: sales@calright.com http://www.calright.com

DIMENSIONS

FRONT VIEW   LEFT SIDE VIEW   REAR VIEW   BOTTOM VIEW

60 (2.4)
46 (1.8)
36 (1.42)
60 (2.4)
37.5 (1.48)
167.5 (6.6)
46 (1.8)
52 (2.05)
52 (2.05)
35 (1.38)

1/4-20UNF Depth 8mm

KEY: mm (in)

200L CONTACT ADAPTER

7 (.28)
15 (.59)
47.5 (1.87)
42 (1.65)

ALSO AVAILABLE

DT-209X   shown in Carrying Case.
12" wheel FPM-12 & FPM-12CBL.

SPECIFICATIONS

MODEL	DT-209X / DT-209X-S12
MEASURING RANGE	6 - 99,999 rpm
MEASURING RANGE CONTACT	0.8 - 25,000 rpm
ACCURACY	±1 rpm: 6 - 8,300 rpm / ±2 rpm: 8,301 - 25,000 rpm / ±0.006 % of reading / ±1 digit (or 7 rpm max.): 25,001 - 99,999 rpm
DISPLAY	5 digit 0.47""(12 mm) high LCD
MEASURING UNIT	rpm: (Non Contact up to 14' away) Contact: ypm, mPM, fpm, ipm and Length; yd, m, ft, in, linear rate and length: using contact adapter included and 6" or 12" circumference wheels.
MEASURING MODE	USB mode; PC online measuring / standard (STD) mode; Standard measuring / Average (AVE) mode; Average data measuring
MEMORY	STD mode; 24 blocks, 10 points/block (Total; 240 data) AVE mode; 30 blocks (Last, Max, Min, Average data in each block) Date and hour of start/finish are stored in each block. (Can download data with USB communication.)
USB COMMUNICATION	USB 1.1
ANALOG OUTPUT	Max. 1 V
DISPLAY UPDATE TIME	1 second (typical)
DETECTION	Laser diode
SYSTEM CONTROL	Single-chip C-MOS microprocessor
OVER RANGE INDICATOR	Flashing numerals
VOLTAGE REQUIREMENT	2 AA / 1.5 V Batteries
LOW BATTERY INDICATOR	Flashing "LO BAT" display
AUTO POWER SHUT-OFF	Yes (except USB mode)
BATTERY LIFE	15 hrs Approx.
OPERATING ENVIRONMENT	Non-corrosive
OPERATING TEMPERATURE RANGE	32° - 113°F (0 - 45°C)
CONSTRUCTION	Die-cast aluminum housing
WEIGHT	DT-209X: 0.9 pound (400g) / DT-209X-S12: 1.0 pound (460g)
DIMENSIONS	6.6""L x 2.4""W x 1.8""H (167.5 mm x 60 mm x 46 mm)
WARRANTY	1 year
STANDARD ACCESSORIES	Reflective tape, 2 cone adapters, funnel adapter, 3 1/2" Extension shaft carrying case, NIST certificate, Master Wheel (6" cir.) and 200L adapter, USB cable, case, NIST certificate, Master Wheel (6" cir.) and 200L adapter, USB cable, Application software (CD-R)